

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An apparatus for guiding a location of the other party in a navigation system, comprising:

a GPS receiver for receiving location data from ~~a plurality of~~ at least one GPS satellites;

a storage means for storing a map data;

a display means for displaying the stored map data and location information of the other party on a screen;

a voice processing means for processing a voice signal and outputting the processed voice signal;

~~an~~ input means for inputting a variety of key signals and requesting a location information of the other party's moving object;

a wireless communication means for transmitting a location information request message requesting the location information of the other party's moving object to a traffic information center and receiving the requested ~~result~~ location information; and

a control means for ~~controlling each means, controlling a~~ generating the location information request message of pertaining to the other party's moving object to be transmitted to the wireless communication means, ~~and controlling the display means to display the location information of the other party's moving object to be displayed from the received location information message of the other party's moving object, receiving, from a traffic information center, the shortest distance between a location of the apparatus and a location of the other party's moving object determined according to at least traffic information of the other party's moving object, and displaying the received shortest distance using the display means.~~

2. (Currently Amended) The apparatus according to claim 1, wherein the control means processes the location information of the other party's moving object, received from the wireless communication means, to simultaneously output the location of the other party's moving object to the display means and the voice processing ~~unit~~ means.

3. (Currently Amended) A system for guiding a location of the other party's moving object ~~in a navigation system~~, the system comprising:

a navigation system installed in a moving object, for displaying a current location and traveling route by using location data received from a plurality of GPS satellites and map data stored in a storage medium, requesting a location information of the other party's moving object, and displaying the received location information on a map information;

a traffic information center for receiving a location information request message including a tracking information of pertaining to the other party's moving object as requested by the navigation system, checking a location information sharing status of the other party's moving object, tracking a location information of a navigation system whose location information is to be shared, identifying the shortest distance between a location of the moving object having the requesting navigation system and the location of the other party's moving object according to traffic information of the other party's moving object and transmitting the identified shortest distance and the tracked location information to the requesting navigation system; and

a mobile communication network for performing a mobile communication of the navigation system.

4. (Original) The system according to claim 3, wherein the navigation system requests location information on a plurality of moving objects, matches the received location information on the plurality of moving objects with the map information, and displays the matched information.

5. (Original) The system according to claim 3, wherein the other party's moving object is a navigation system installed in a corresponding moving object or a mobile terminal carried by a user of the other party's moving object.

6. (Original) The system according to claim 3, wherein the navigation system informs the user of the location information of the other party's moving object in a voice.

7. (Currently Amended) A method for guiding a location of the other party's moving object in a navigation system, comprising ~~the steps of~~:

(a) selecting an identification information of the other party's navigation system in a user's navigation system, and transmitting the identification information and a location information request message ~~on~~ pertaining to the other party's moving object to a traffic information center;

(b) receiving the location information request message ~~of the other party's moving object~~ including a tracking location information, and a traffic information of the other party's moving object at the traffic information center; ~~tracking a location information of the other party's~~

~~moving object, and transmitting the tracked location information message of the other party's moving object; and~~

~~(e) receiving the location information message of the other party's moving object at the user's navigation system;~~

(c) identifying the shortest distance between the user's location and the other party's location according to the tracking location information and traffic information; and

(d) matching the location of the other party's moving object with a map information, and displaying the matched information.

8. (Currently Amended) The method according to claim 7, wherein after the step ~~(e)~~ (d), the location information of the other party's moving object is periodically updated and reflected on the currently displayed map information.

9. (Currently Amended) The method according to claim 7, ~~further comprising, after the step (e), the steps of:~~ wherein the step (c) includes:

requesting a traveling route which sets the location of the other party's moving object, displayed on the map information, as a target route; ~~and matching the location of the other party's moving object and a current location with the map information to provide the shortest traveling route therebetween.~~

10. (Original) The method according to claim 7, wherein the location information request message includes a telephone number of the navigation system installed in the other party's moving object, a subscriber information and a transmission location.

11. (Original) The method according to claim 7, wherein the location information reception message includes a location information of the navigation system installed in the other party's moving object, a recipient information and a map information.

12. (Currently Amended) The method according to claim 7, wherein the location information request ~~and reception~~ messages and a message responding thereto ~~on the other party's moving object~~ are short message service (SMS).

13. (Currently Amended) The method according to claim 7, wherein the step (b) includes the steps of:

receiving the location information request message ~~of~~ pertaining to the other party's moving object through a mobile communication network;

extracting a telephone number of the navigation system contained in the received location information request message and checking whether or not the telephone number is registered as a location information sharing;

if the telephone number is registered as the location information sharing, tracking the location information of the other party's navigation system through the mobile communication network and storing the tracked location information of the other party's navigation system; and

transmitting the stored location information of the other party's navigation system through the mobile communication network to the navigation system that ~~requests~~ requested the location information.

14. (Currently Amended) A method for guiding a location of the other party's moving object in a navigation system, comprising ~~the steps of~~:

(a) selecting respective identification information of the other party's navigation systems in a user's navigation system, and transmitting the respective identification information and location information request messages ~~on~~ pertaining to the other party's moving objects to a traffic information center;

(b) receiving the location information request messages and traffic information of the other party's moving objects at a the traffic information center, ~~tracking location information of the other party's moving objects, and transmitting the tracked location information messages of the other party's moving objects;~~ and

(c) ~~receiving the location information messages of the other party's moving objects at the user's navigation system, matching the locations of the other party's moving objects with a map information, and display the matched information~~ identifying the shortest distance between the user's location and each of the other party's moving object's locations according to the traffic information.

15. (Original) The method according to claim 14, wherein the location information request message includes telephone numbers of the navigation systems, information on user who requests the location information, and a current transmission location.

16. (Original) The method according to claim 14, wherein the location information reception message includes location information of the navigation systems, recipient information and map information corresponding to the location information.

17. (Currently Amended) The method according to claim 14, wherein ~~if the~~ when at least one of the location information messages is received at the traffic information center, a magnification of a current map information is adjusted in order to display all locations of the other party's moving objects contained in the at least one location information message, matching all location information of the other party's moving objects and displaying the matched information.

18. (Original) The method according to claim 17, wherein the location information of the other party's moving objects is periodically updated and the magnification of the map information is re-adjusted centering on the updated location information of the other party's moving objects.

19. (New) The method according to claim 7, further comprising:

(e) displaying, on a screen of the user's navigation system, the identified shortest distance.

20. (New) The method according to claim 14, further comprising:

(d) displaying, at the user's navigation system, location information of the other party's moving objects according to the location information request messages, and displaying the corresponding identified shortest distance at the user's navigation system.

21. (New) A method for providing location information of a party's moving object, comprising:

transmitting, from a user's navigation system, an identification information of another party's moving object, and a location request requesting location information of the another's party's moving object; and

receiving, by the user's navigation system, the requested location information of the another's party moving object as well as the shortest distance between a location of the user's navigation system and a location of the another party's moving object that is determined according to traffic information of the another party's moving object.